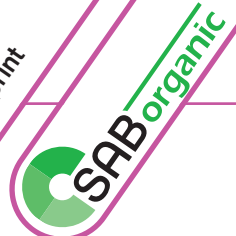


# Continuous Flex Cables for Track

## SABorganic S 1000 Data

Eco-friendly extremely flexible SABIX®/PUR data cable with colored conductors or pairs for continuous movement, available unshielded or shielded

reduced  
carbon footprint



SABorganic S 1000 Data 25x0.14mm<sup>2</sup> 27740402 CE



Marking for SABorganic S 1000 Data 27740402:

SAB BRÖCKSKES · D-VIERSEN · SABorganic S 1000 Data 4x0.25mm<sup>2</sup> 27740402 CE

B  
42

**Application:** The data cable SABorganic S 1000 Data is suitable for cable tracks and equipped with an outer jacket made of bio-based PUR material that is mainly obtained from sustainable resources. This reduces the carbon footprint by 25% compared to conventional types. SABorganic S 1000 Data cable is particularly suitable for use in cable tracks and moveable machine parts. The halogen-free and flame-retardant characteristics of the new jacket material reduce potential fire hazards. SABorganic S 1000 Data cable is also resistant against mineral oil-based lubricants and many chemicals.

### Construction:

<b>Conductor:</b>	bare copper strands, extra fine wires
<b>Insulation:</b>	SABIX®
<b>Color code:</b>	DIN 47100
<b>Stranding:</b>	specially adjusted layering with non-woven tape over each layer
<b>Wrapping:</b>	non-woven tape
<b>Shielding:</b>	tinned copper braiding
<b>Jacket material:</b>	PUR, TPU acc. to EN 50363-10-2 + VDE 0207-363-10-2 with matte surface
<b>Jacket color:</b>	gray (RAL 7000)

### Outstanding features:

- reduced carbon footprint
- low capacity construction
- sustainable plastic materials
- free from paint wetting impairment substances (PWIS-free)
- flexible at low temperatures
- halogen-free
- flame retardant and self-extinguishing
- travel > 10 m is possible
- high abrasion resistance
- small bending radius
- small outer diameter

### Technical data:

<b>Peak operating voltage:</b>	max. 350 V
<b>Testing voltage:</b>	conductor/conductor: 1500 V conductor/shielding: 1200 V
<b>Torsion angle:</b>	± 60°/1 m
<b>Min. bending radius:</b>	3.0 x O.D. fixed installation: continuously flexing: 7.5 x O.D.
<b>Temperature range:</b>	static: -50/+90°C flexing: -40/+90°C short-term use: +125°C (up to 2,000h)
<b>Halogen-free:</b>	acc. to IEC 60754-1 + VDE 0482-754-1
<b>Burning characteristics:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2
<b>Oil resistance:</b>	very good TPU acc. to EN 50363-10-2 + VDE 0207-363-10-2
<b>Chemical resistance:</b>	good against acids, alkalines, solvents, hydraulic liquids, etc.
<b>Continuous flexibility:</b>	very good
<b>Sunlight resistance:</b>	acc. to HD 605
<b>Ozone resistance:</b>	acc. to DIN EN 50396
<b>Salt water resistance:</b>	acc. to UL 1309
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page O/30

item no.	no. of conductors	nominal outer-ø inch	mm	cable weight ≈lbs/mft
<b>multi-conductor cable unshielded</b>				
▶ 24 AWG (≈ 32/38) ▪ 0.25 mm <sup>2</sup>				
27740402	4	0.142	3.6	12
27740702	7	0.181	4.6	20
▶ 22 AWG (≈ 42/38) ▪ 0.34 mm <sup>2</sup>				
27740403	4	0.154	3.9	15

Other dimensions and colors are available on request

item no.	no. of conductors	nominal outer-ø inch	mm	cable weight ≈lbs/mft
<b>multi-conductor cable shielded</b>				
▶ 26 AWG (≈ 18/38) ▪ 0.14 mm <sup>2</sup>				
27841201	12	0.213	5.4	29
▶ 24 AWG (≈ 32/38) ▪ 0.25 mm <sup>2</sup>				
27840402	4	0.161	4.1	18
27840502	5	0.177	4.5	23
▶ 22 AWG (≈ 42/38) ▪ 0.34 mm <sup>2</sup>				
27841803	18	0.303	7.7	68
▶ 20 AWG (≈ 28/34) ▪ 0.50 mm <sup>2</sup>				
27840550	5	0.217	5.5	34
▶ 19 AWG (≈ 42/34) ▪ 0.75 mm <sup>2</sup>				
27840475	4	0.244	6.2	42

Other dimensions and colors are available on request

item no.	no. of pairs	nominal outer-ø inch	mm	cable weight ≈lbs/mft
<b>multi-pair cable shielded</b>				
▶ 26 AWG (≈ 18/38) ▪ 0.14 mm <sup>2</sup>				
27890314	3	0.189	4.8	20
27891014	10	0.299	7.6	46
▶ 24 AWG (≈ 32/38) ▪ 0.25 mm <sup>2</sup>				
27890225	2	0.189	4.8	22
27890525	5	0.268	6.8	40
27890625	6	0.276	7.0	46
▶ 22 AWG (≈ 42/38) ▪ 0.34 mm <sup>2</sup>				
27890434	4	0.268	6.8	39
▶ 20 AWG (≈ 28/34) ▪ 0.50 mm <sup>2</sup>				
27890250	2	0.236	6.0	34
27890350	3	0.268	6.8	44

Other dimensions and colors are available on request

#### DIN 47100 color code- conductors:

#1- white, #2- brown, #3- green, #4- yellow, #5- gray, #6- pink, #7- blue, #8- red, #9- black, #10- violet, #11- gray-pink, #12- red-blue, #13- white-green, #14- brown-green, #15- white-yellow, #16- yellow-brown, #17- white-gray, #18- gray-brown

#### DIN 47100 color code- pairs:

#1- white/brown, #2- green/yellow, #3- gray/pink, #4- blue/red, #5- black/purple, #6- gray-pink/red-blue, #7- white-green/brown-green, #8- white-yellow/yellow-brown, #9- white-gray/gray-brown, #10- white-pink/pink-brown

